Amendments to the Claims:

This listing of claims will replace all prior versions, and listings, of claims in the application:

Listing of Claims:

1. (Currently amended) A system for managing at least one data object in a network in response to a request for said data object from a requesting node comprising:

a plurality of storage locations, each of said storage locations capable of storing a copy of <u>said</u> the data object;

a data manager for creating a copy or moving storing a copy of said data object in to one of said storage locations and for transferring said data object to a storage location within a predetermined distance of said requesting node; and

a counter for indicating a minimum number of storage locations in the network containing the data object,

wherein the data manager maintains the data object at the minimum number of storage locations in the network based on the counter.

- 2. (Original) The system of claim 1 wherein each of said storage locations in the network possesses at least one attribute and is configured to determine a function based on said attribute.
- 3. (Original) The system of claim 2 wherein the attribute comprises a geographic location.
- 4. (Original) The system of claim 2 wherein the function comprises a distance between said storage locations in the network.
- 5. (Original) The system of claim 1 wherein each storage location comprises a computer memory.

- 6. (Canceled)
- 7. (Original) The system of claim 1 wherein the data manager includes storage location information.
- 8. (Original) The system of claim 7 wherein the storage location information comprises at least one of a storage space data, size of data objects, last accessed time of data objects, number of accesses of data objects, or local geographic information.
- 9. (Currently amended) A method of managing a data object in a network comprising:

receiving the data object;

determining a minimum distance between a plurality of storage locations in a network;

selecting at least one storage location based on the minimum distance; creating a plurality of copies of the data object; and storing each at least one of the plurality of copies of the data object at a selected the at least one storage location in the network.

- 10. (Original) The method of claim 9 wherein the plurality of copies comprises at least n copies of the data object, n being a desired minimum number of copies of the data object.
- 11. (Original) The method of claim 9 wherein said creating comprises: determining n, n being a desired minimum number of copies of the data object; and
 - forming at least n-1 copies of the data object.
- 12. (Currently amended) A method of managing a data object in a network comprising:

determining the <u>an actual</u> number of a <u>plurality of</u>-storage locations in the network <u>each that</u> containing a copy of the data object;

obtaining determining a desired minimum number of copies of the data object; and

storing a copy of the data object at a selected storage location in the network if the actual number of copies of the data storage locations in the network that contain a copy of the data object is less than the desired minimum number,

wherein the selected storage location is separated by at least a distance d from at least one other storage location[[s]] in the network containing a copy of the data object, d being a predetermined minimum distance.

- 13. (Original) The method of claim 12 further comprising the step of calculating the predetermined minimum distance d.
- 14. (Original) The method of claim 13 wherein said calculating step comprises determining the geographic location of the storage location.
- 15. (Currently amended) A method of managing a data object in a network comprising:

receiving a modified data object;

determining which of a plurality of storage locations contains the data object;

obtaining determining a minimum number of storage locations containing the data object; and

replacing each data object at each storage location with the modified data object such that at least the minimum number of storage locations contain the modified data object and each storage location containing the modified data object is separated by at least d, d being a predetermined minimum distance.

- 16. (Original) The method of claim 15 further comprising the step of calculating the predetermined minimum distance d.
- 17. (Original) The method of claim 16 wherein said calculating comprises determining the geographic location of the storage location.
- 18. (Currently amended) A method of managing a data object in a network comprising:

determining an actual number of a plurality of storage locations in the network that each contain a copy of the data object;

obtaining determining a maximum number of copies of the data object; and

deleting a copy of the data object from a storage location if the actual number of copies of the data is greater than the maximum number of copies of the data object.

- 19. (Original) The method of claim 18 wherein the maximum number of copies of the data object is equal to n+x, n being a desired minimum number of copies of the data object and x being a maximum additional number of copies of the data object.
- 20. (Original) The method of claim 18 wherein said deleting comprises:

determining an attribute of each storage location containing a copy of the data object;

selecting the copy of the data object based on the attribute of the storage location containing the data object; and

deleting the selected copy of the data object.

21. (Original) The method of claim 20 wherein the attribute comprises at least one of storage space data, size of the stored data object, last accessed time of

the data object, number of accesses of the data object, or local geographic information.

- 22. (Original) The method of claim 18 further comprising calculating x, said calculating comprising determining the geographical location of the storage location.
- 23. (Currently amended) A method of managing a data object in a network comprising:

determining a plurality of storage locations in a network containing the data object; and

broadcasting a deletion message to said plurality of storage locations via a multicast protocol; and

deleting the data object at each determined storage location.

- 24. (Canceled)
- 25. (Currently amended) The method of claim 23[[4]] wherein said multicast protocol is Protocol Independent Multicast-Sparse Mode (PIM-SM).
- 26. (Currently amended) A method of managing a data object in a network comprising:

receiving a request to access a data object from a user site;
generating a copy of the data object; and
storing the generated copy of the data object at a storage location wherein
the storage location is within a predetermined distance from the user site.

27. (Currently amended) The method of claim 26 further comprising after said generating step:

determining the number of a plurality of storage locations in the network containing a copy of the data object;

obtaining determining a desired minimum number of copies of the data object;

selecting a storage location in the network containing a copy of the data object; and

deleting the copy of the data object at the selected storage location if the actual number of the plurality of storage locations containing a copy of the data object is greater than the desired minimum number of copies.

- 28. (Currently amended) The method of claim 27 wherein said selecting comprises determining an attribute of the <u>plurality of</u> storage locations containing a copy of the data object.
- 29. (Original) The method of claim 28 wherein the attribute comprises at least one of storage space data, size of the stored data object, last accessed time of the data object, number of accesses of the data object, or local geographic information.
- 30. (Currently amended) A server for maintaining information on data in network nodes, the server comprising:
 - a node table for storing node information;
 - a node distance table for storing distance information between nodes;
 - an object copy table for maintaining data copy information; and
- an object data and rules table <u>for storing information on rules of each data object</u>.